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FILING DATE APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/603,528 06/25/2003 David P. Quigley 8222-42 4126 EXAMINER 07/14/2005 Woodard, Emhardt, Moriarty, McNett & Henry LLP KWON, JOHN Bank One Center/Tower ART UNIT PAPER NUMBER **Suite 3700** 111 Monument Circle 3747 Indianapolis, IN 46204-5137

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary | Application No. | Applicant(s) | |
|--|--|---|--|
| | 10/603,528 | QUIGLEY ET AL. | |
| | Examiner | Art Unit | |
| | John T. Kwon | 3747 | |
| The MAILING DATE of this communication Period for Reply | appears on the cover sheet v | vith the correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days, the fixed period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b). | ON. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MC tatute, cause the application to become A | reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). | |
| Status | | | |
| 1) Responsive to communication(s) filed on <u>6</u> | 05 May 2005. | · | |
| | This action is non-final. | | |
| 3) Since this application is in condition for all closed in accordance with the practice und | · · · · · · · · · · · · · · · · · · · | • | |
| Disposition of Claims | | | |
| 4) | drawn from consideration. | | |
| Application Papers | | | |
| 9) The specification is objected to by the Exar | niner. | | |
| 10) The drawing(s) filed on is/are: a) | accepted or b) objected to | by the Examiner. | |
| Applicant may not request that any objection to | -,, | • • | |
| Replacement drawing sheet(s) including the co | | • • • | |
| Priority under 35 U.S.C. § 119 | | , | |
| 12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a | nents have been received. nents have been received in priority documents have bee reau (PCT Rule 17.2(a)). | Application No n received in this National Stage | |
| Attachment(s) | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date | Paper No | Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) | |

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 1-4, 6, 8 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Newly insert limitation of "the sidewall portion extending **parallel** to the centerline . . ." is a new matter since the original specification disclosed as a **substantially parallel** (page 8, lines 4-5).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6, 8, 13-20, 27-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Griser (US 6 539 910). Griser discloses a piston with an annular surface (14). A combustion bowl is defined by a circumferential sidewall and a bottom wall portion. The sidewall has a sharp edge at the intersection with the annular surface (14) and **substantially** parallel to the centerline. An upward flared portion is located between the sharp portion and the rounded portion (18).

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4, 8, 13-18, 27-32 are rejected under 35 U.S.C. 102(a) as being anticipated by Iijima (US 6 314 933). Iijima discloses a piston with an annular surface (15). A combustion bowl (11) is defined by a circumferential sidewall and a bottom wall portion. The sidewall has a sharp edge at the intersection with the annular surface (15) and **substantially** parallel to the centerline.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John T. Kwon whose telephone number is (571) 272-4846. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John T. Kwon
Primary Examiner
Art Unit 3747